SONY

3-758-849-21(1)

Stereo Cassette-Corder

Operating Instructions

TCS-580V

Sony Corporation © 1994 Printed in Japan

Owner's Record

The model number is located at the bottom and the serial number is located inside the cassette compartment lid. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. TCS-580V Serial No._____

WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in a accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Welcome!

Thank you for purchasing the Sony Stereo Cassette-Corder.
Here are some of the useful features.

- Built-in stereo microphones — You can make stereo recording without using an external microphone.
- Stereo headphones jack
- The PB EQ (playback equalizer) switch selects the tape.
- The VOR (Voice Operated Recording) system starts and stops recording automatically in response to the sound, and thus saves tapes and batteries.
- You can increase or decrease the playback tape speed.
- Stop-pause-release — The pause switch is released automatically when the ■ STOP button is depressed. Thus, you don't miss a recording chance by forgetting to release the pause.

Precautions

On power

Operate the unit only on 3 V DC.
For AC operation, use the AC power adaptor recommended for the unit. Do not use any other type. For battery operation, use two size AA (R6) batteries.

On the unit

- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Should any solid object or liquid fall into the unit, remove the batteries or disconnect the AC power adaptor, and have the unit checked by qualified personnel before operating it any further.
- Keep personal credit cards using magnetic coding or spring-wound watches etc. away from the unit to prevent possible damage from the magnet used for the speaker.
- When you do not use the unit for long, remove the batteries to avoid damage caused by battery leakage and subsequent corrosion.
- If the unit has not been used for long, set it in the playback mode and warm it up for a few minutes before inserting a tape.

On tape longer than 90 minutes

We do not recommend the use of tapes longer than 90 minutes except for a long continuous recording or playback. They are very thin and tend to be stretched easily.

If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

Troubleshooting

Should any problem persist after you have made these checks, consult your nearest Sony dealer.

A cassette cannot be inserted.
→ The cassette is being inserted in the wrong way. (The cassette should be inserted in the lid.)
→ ► PLAY has been already pressed.

● REC cannot be pressed.
→ There is no cassette in the cassette compartment.
→ The cassette tab has been removed.

► PLAY cannot be pressed.
→ The tape has reached the end.

Abnormal sound is heard at the end of the tape in the fast forward or rewind mode.
→ The unit is not set in the stop mode. Depress ■ STOP.

The tape stops in the cue or review mode.
After the fast forward or rewind, the tape does not move even though you press ► PLAY.
→ The batteries are weak.

The unit does not operate.
→ The batteries have been inserted with incorrect polarity.
→ The batteries are weak.
→ PAUSE ⊸ is slid in the direction of the arrow.
→ The AC power adaptor or car battery cord is connected to the unit only and you are going to use the unit on batteries.

No sound comes from the speaker.
→ The headphones are plugged in.
→ The volume is turned down completely.

Tape speed is too fast or too slow in the playback mode.
→ SPEED CONTROL is set at a point other than the center.

The sound drops out or comes with excessive noise.
→ The volume is turned down completely.
→ The batteries are weak.
→ The heads are contaminated. See "Maintenance".

Recording cannot be made.
→ Connection is made incorrectly.
→ The batteries are weak.
→ The record/playback head is contaminated.
→ MIC SENS has been set to the improper position when VOR is set to ON.

Recording is interrupted.
→ VOR is set to ON. When you do not use VOR, set it to OFF.

Recording cannot be erased completely.
→ The erase head is contaminated.
→ Recording or erasing is being made using recorded CrO_2 (TYPE II) or metal (TYPE IV) tape.

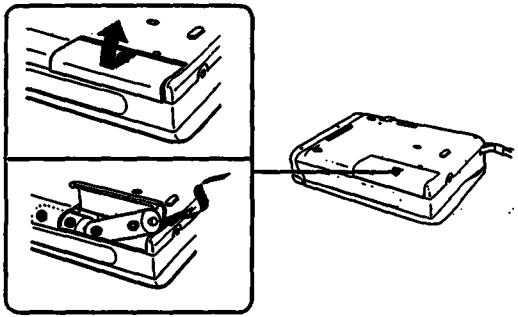
The playback sound comes from wrong direction.
→ When recording, the unit is placed in the wrong way.

Preparing Power Sources

Choose one of the following power sources.

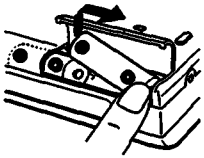
Dry Batteries

Make sure that nothing is connected to the DC IN 3V jack.



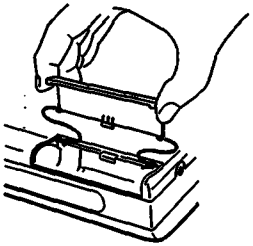
1 Open the battery compartment lid.
2 Insert two size AA (R6) batteries (not supplied) with correct polarity and close the lid.

To take out the batteries



If the battery compartment lid is accidentally detached

Attach it as illustrated.



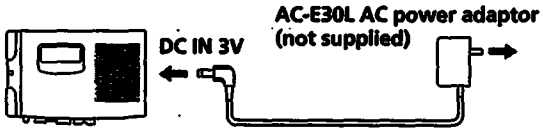
When to replace the batteries

Replace the batteries with new ones when the REC/BATT (record/battery) lamp dims and the sound is distorted.

Battery life (Approx. hours)

Batteries	Recording	Playback
Sony SUM-3 (NS)	3	2.5
Sony alkaline AM3 (N)	10.5	8.5

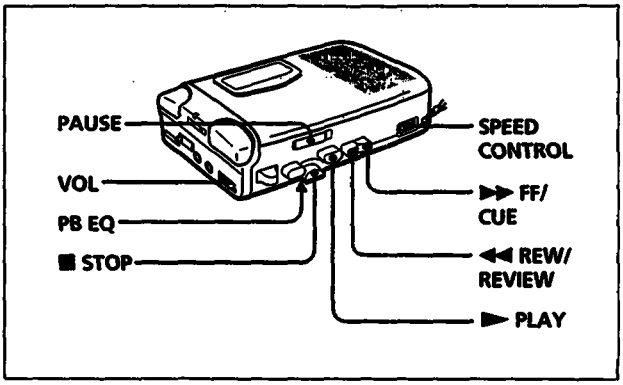
House Current



Connect the AC power adaptor to DC IN 3V and to the wall outlet. Use the AC-E30L AC power adaptor (not supplied). Do not use any other AC power adaptor.

Polarity of the plug

Playing a Tape



1 Insert a cassette with the side to start playing facing the lid.
2 Press ▶ PLAY.
3 Adjust the volume.

To	Press or slide
Stop playback/stop fast forward or rewind*	■ STOP
Pause playback	Slide PAUSE ⟶ in the direction of the arrow.
Fast forward	▶▶ FF/CUE during stop
Rewind	◀◀ REW/REVIEW during stop
Search forward during playback (CUE)	Press and hold ▶▶ FF/CUE and release it at the point you want.
Search backward during playback (REVIEW)	Press and hold ◀◀ REW/REVIEW and release it at the point you want.

*If you leave the unit after the tape has been wound or rewound, the batteries will be consumed rapidly. Be sure to depress ■ STOP.

How to adjust the tape playback speed

Use the SPEED CONTROL.
S (slow): to play back a tape slower
Center position: to play back a tape at normal speed
F (fast): to play back a tape faster

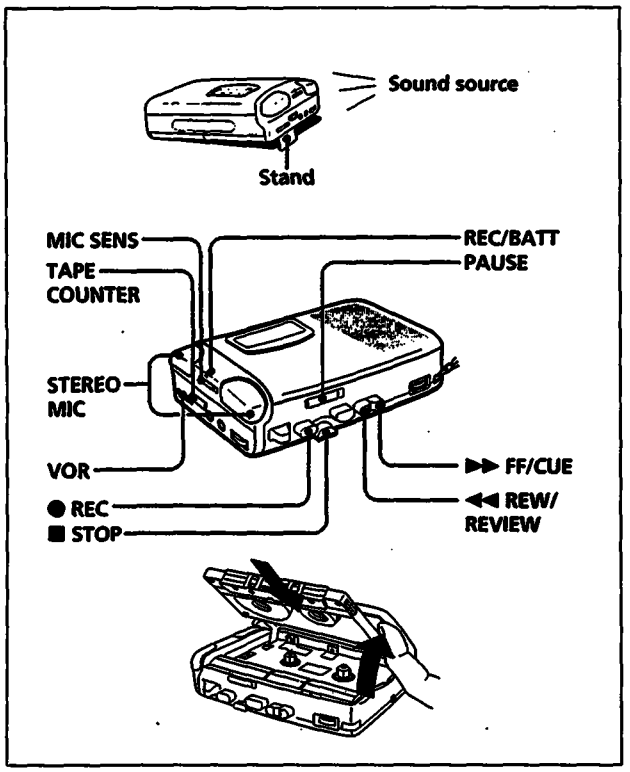
How to equalize the sound

Set the PB EQ switch depending on the playback tape.

Tape	PB EQ switch
Normal tape (TYPE I)	NORMAL
CrO_2, (TYPE II) or metal tape (TAPE IV)	CrO_2 /METAL

Recording

Make sure that nothing is connected to MIC.



1 Open the cassette compartment lid with your finger.
2 Insert a normal (TYPE I) cassette with the side to start recording facing the lid.
3 Set VOR to ON or OFF.
If you set VOR to ON, the unit automatically starts recording the sound and pauses when there is no sound (you can save tapes and batteries).
When the sound is not loud enough, set it to OFF, or the unit may not start recording.
4 Set MIC SENS to select the sensitivity of the microphone :
H (high) to record at meetings or in a quiet and/or spacious place.
L (low) to record for dictation or in a noisy place.
5 Press ● REC. The ▶ PLAY button will be depressed together. Recording starts.
While the tape runs, the REC/BATT lamp lights and flashes depending on the strength of the sound.

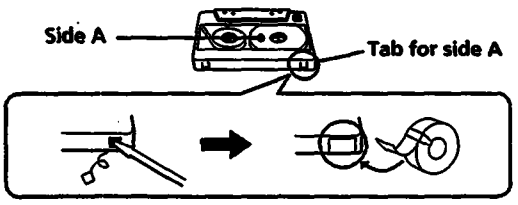
To	Press or slide
Stop recording	■ STOP
Start recording during playback	● REC during playback (the unit becomes in the recording mode)
Review the portion just recorded	Press and hold ◀◀ REW/REVIEW during recording. Release the button at the point to start playback.
Pause recording	Slide PAUSE ➡ in the direction of the arrow.
Take out a cassette	■ STOP and open the lid with your finger

Notes
- Do not use a CrO_2 (TYPE II) or metal (TYPE IV) tape for recording; otherwise the sound may be distorted when you play back the tape, or the previous recording may not be erase completely.
- Be careful not to press the microphones forcibly. Otherwise, the microphones will be damaged and cause noise.
- The SPEED CONTROL switch works in the playback mode only. Recording will be made independent of this control.

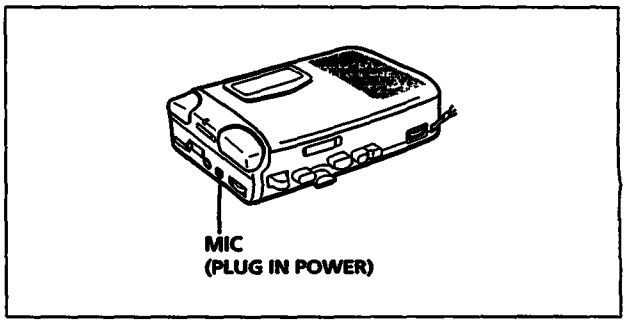
Notes on VOR (Voice Operated Recording)
- The VOR system depends on the environmental conditions. If you cannot get the desired results even though you adjust MIC SENS, set VOR to OFF.
- When you use the system in a noisy place, the unit will stay in the recording mode. If the sound is too soft, on the contrary, the unit will not start recording. Set MIC SENS to H (high) or L (low) depending on the conditions to pick up necessary sound only.

To monitor the sound
Connect the headphones (supplied) to ∩.

To prevent a tape from being accidentally recorded over
Break out and remove the cassette tabs. To reuse the tape for recording, cover the tab hole with adhesive tape.



Recording from Various Sound Sources



Recording with an External Microphone

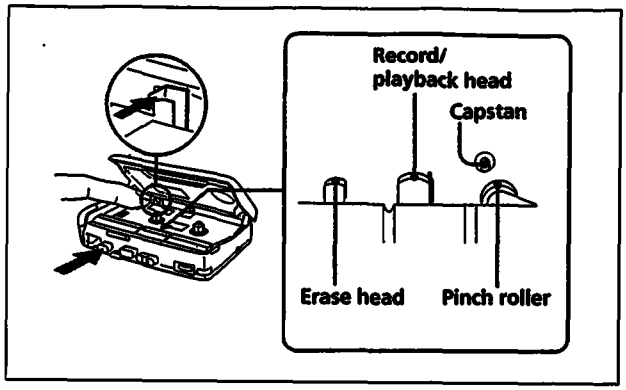
Connect a stereo microphone with stereo mini plug to MIC. Use a microphone of low impedance (less than 3 kilohms). When an external microphone is connected to MIC firmly, the built-in stereo microphones are automatically disconnected. When using a plug-in-power system microphone, the power to the microphone is supplied from this unit.

Note
When recording with an external microphone, check the sensitivity of the microphone, since the VOR system may not work properly because of the difference in sensitivity.

Recording from Another Equipment

Connect another equipment to MIC using a connecting cord (not supplied).

Maintenance



To clean the tape heads and path

Depress ● REC while pushing the lever.
Wipe the erase head, record/playback head, capstan and the pinch roller with a cotton swab, moistened with alcohol every 10 hours of use.

To clean the exterior

Use a soft cloth slightly moistened in water. Do not use alcohol, benzine or thinner.

Specifications

Track
Compact cassette, Stereo
Speaker
Approx. 3.6 cm (1 7/16 in.) dia.
Frequency range
40 – 12,500 Hz (during playback)
70 – 10,000 Hz (during recording)
Input
Microphone input jack (stereo minijack/PLUG IN POWER)
sensitivity 0.2 mV for 3 kilohms or lower impedance microphone
Output
Headphones jack (stereo minijack) for 8 – 300 ohms headphones
Power output
Speaker 120 mW
Headphones 7 mW + 7 mW
Variable range of the tape speed
from +30 % to –15 %
Power requirements
- Two size AA (R6) batteries (not supplied): 3 V DC
- Sony AC-E30L AC power adaptor (not supplied) : 120 V AC, 60 Hz
- Sony DCC-E130L car battery cord (not supplied): 12 V car battery

Dimensions (w/h/d)
Approx. 90 x 125 x 36 mm (3 5/8 x 5 x 1 7/16 in.) incl. projecting parts and controls
Mass
Approx. 265 g (9.4 oz) incl. batteries
Supplied accessories
Carrying case (1)
Headphones (1)

Design and specifications are subject to change without notice.

SONY

Tape Cassette Player/Recorder/CD Player/Mini Disc
DAT/Radio/Head Phone/Speaker/MIC/Personals

Portable Audio

LIMITED WARRANTY

SONY ELECTRONICS INC. ("SONY") warrants this Product (including any accessories) against defects in material or workmanship as follows:

1. LABOR: For a period of 90 days from the date of purchase, if this Product is determined to be defective, Sony will repair the Product at no charge, or pay the labor charges to any SONY authorized service facility. After the Warranty Period, you must pay for all labor charges.

2. PARTS: In addition, SONY will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year. After 90 days from the date of purchase, labor for removal and installation is available from SONY authorized service facilities or a Sony Service Center at your expense.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to any authorized SONY service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For your convenience, SONY ELECTRONICS INC. has established telephone numbers for frequently asked questions:

To locate the servicer or dealer nearest you, call:

1-(800)-342-5721

For service assistance or resolution of a service problem, call:

SONY CUSTOMER RELATIONS CENTER
1-(800)-282-2848

For Product information or operation, call:

SONY CUSTOMER INFORMATION CENTER
(201)-368-9272
or write to:
Sony Customer Information Center
One Sony Drive
Park Ridge, New Jersey 07656-8003

For an accessory or part not available from your authorized dealer, call:

1-(800)-488-SONY (7669)